

METHODS AND COMPOSITIONS FOR THE DRY POWDER  
FORMULATION OF INTERFERONS

ABSTRACT OF THE DISCLOSURE

According to the present invention, methods and compositions are provided for interferon-based dry powder compositions, particularly interferon-beta. The compositions are useful for treating conditions in humans that are responsive to treatment with interferons. In particular, the methods of the present invention rely on spray drying to produce stable, high potency dry powder formulations of interferons, including but not limited to IFN-beta. Surprisingly, it has been found that IFN can be prepared in high potency, dry powder formulations by spray drying. Such dry powder formulations find particular utility in the pulmonary delivery of IFN.